

Title (en)  
HYDRAULIC CEMENT MIX AND PROCESS FOR ITS PRODUCTION

Publication  
**EP 0293973 A3 19900509 (EN)**

Application  
**EP 88201046 A 19880524**

Priority  
US 5762487 A 19870603

Abstract (en)  
[origin: US4737193A] A hydraulic cement mix comprising a hydraulic cement, aggregate in an amount of up to 80% by weight based upon the total weight of said cement mix, sufficient water to effect hydraulic setting of the cement, and an air-entraining additive consisting essentially of a coconut fatty acid diethanolamine produced by reacting alkyl ester of coconut acid with diethanolamine and a capramide diethanolamide, said additive being in an effective amount whereby air will be entrained in said mix in an amount of 3% to 9% by volume of said mix.

IPC 1-7  
**C04B 24/12**

IPC 8 full level  
**C04B 28/02** (2006.01); **C04B 24/12** (2006.01)

CPC (source: EP US)  
**C04B 24/124** (2013.01 - EP US)

Citation (search report)

- [YD] WO 8501500 A1 19850411 - MARTIN MARIETTA CORP [US]
- [A] US 4488910 A 19841218 - NICHOLSON RICHARD R [US], et al
- [A] US 3642506 A 19720215 - JOHNSON KEITH L
- [Y] WORLD PATENT INDEX DATABASE, accession no. 75-04810W, Derwent week 03, 1975, Derwent Publications Ltd, London, GB; & JP-A-49 047 248
- [A] CHEMICAL ABSTRACTS, vol. 103, no. 16, 21st October 1985, page 292, column 2, abstract no. 128100v, Columbus, Ohio, US; & JP-A<sup>3</sup>60 060 962 (TOHO CHEMICAL INDUSTRY CO., LTD)
- [A] CHEMICAL ABSTRACTS, vol. 93, no. 22, 1st December 1980, page 303, column 1, abstract no. 209275h, Columbus, Ohio, US; & JP-A-55 047 259 (KAO SOAP CO., LTD)

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**US 4737193 A 19880412**; AU 1699588 A 19881208; AU 589319 B2 19891005; EP 0293973 A2 19881207; EP 0293973 A3 19900509; FI 882650 A0 19880603; FI 882650 A 19881204; JP S6452642 A 19890228; PT 87630 A 19880701; PT 87630 B 19920930

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